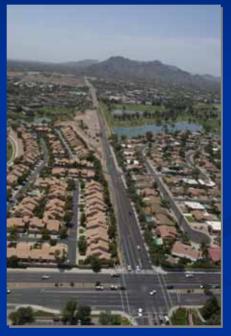
Indian Bend Road Improvements Scottsdale Road to Hayden Road

Design Concept Study



City of Scottsdale
Transportation Commission

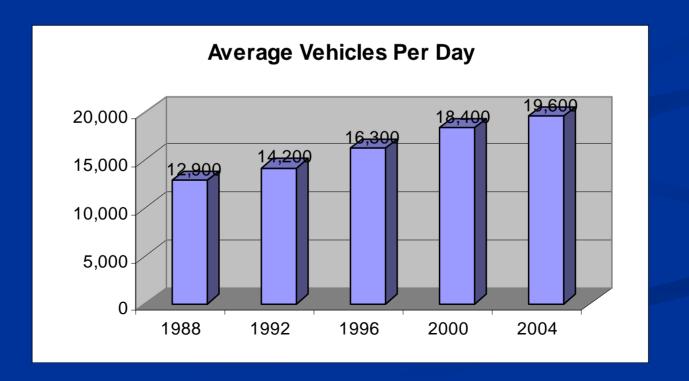
June 16, 2005

Background



- Designated as 4-lane Minor Arterial in Streets Master Plan
- Originally designed in 1981
- 4 lanes completed from Hayden to Pima in 1999
- Connects Scottsdale Road and Pima Freeway
- Included in Bond 2000 election

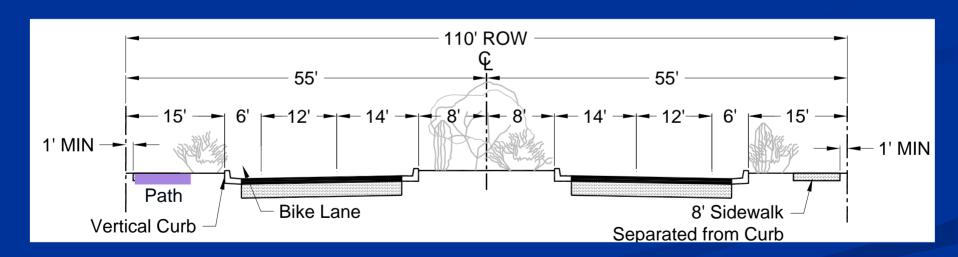
- Manage growth in traffic volumes
 - 12,900 vehicles per day in 1988
 - 19,600 vehicles per day in 2004
 - 25,000-30,000 vpd in 2020



- Improve Drainage/Enhance Safety
 - Wash crossing
 - Curb/Gutter
 - Medians/Turn Lanes



- Bicycle/Pedestrian Enhancements
 - Multi-use path on north
 - Sidewalk on south
 - On-street bike lanes



- Landscaping/Aesthetic Enhancements
 - Medians and back of curb
 - Wash crossing
 - Power lines
 - Public art







Improvement Alternatives



Segment 1: Scottsdale Road to Paradise View



Alternative 1.A – Avoid Existing Drainage Channel

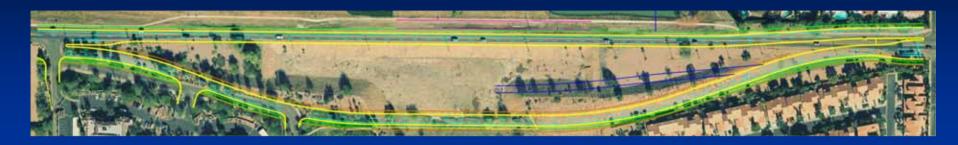


Alternative 1.B – Widen Equally from Center

Segment One Issues

<u>Alternative</u>	Impacts to Existing Facilities	Proximity to Nearest Home	Intersection Congestion	Roadway <u>Noise</u>	<u>Cost</u>
1.A	Railroad Park parking	approx. 60'	Improves	Rubberized asphalt	\$2.3M
1.B	Drainage Channel	approx. 80'	Improves	Rubberized asphalt	\$6.1M

Segment 2: Paradise View to 78th Place

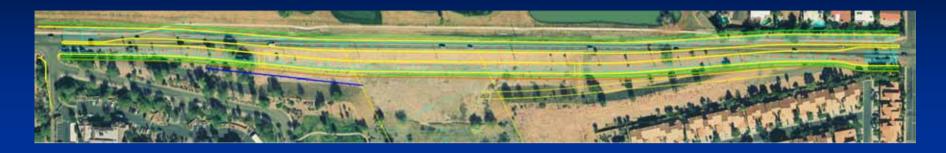


Alternative 2.A – 2-lane bridge eastbound (1981 concept)



Alternative 2.B – 4-lane wash crossing with low bridge

Segment 2: Paradise View to 78th Place



Alternative 2.C – Long 2-lane bridge eastbound



Tunnel Concept - Villa La Playa Homeowners Association

Segment 2: Paradise View to 78th Place









Tunnel Concept – Auxiliary/Access Lanes

Segment Two Issues

<u>Alternative</u>	Road Elevation at <u>Wash</u>	Roadway Operations	Proximity to Nearest Home (near wash)	Proximity to Nearest Home (near 78th Pl.)	Access Changes	Roadway <u>Noise</u>	Cost
2.A	11'	2 lanes open in flood	approx. 30'	approx. 25'	none	Rubberized asphalt	\$5.4M
2.B	0'	4 lanes open in flood	approx. 140'	approx. 30'	none	Rubberized asphalt	\$9.0M
2.C	12'	2 lanes open in flood	approx. 160'	approx. 30'	none	Rubberized asphalt	\$9.8M
Tunnel	< 0'	4 lanes open in flood	approx. 180'	inside back walls	3	Tunnel	\$40-60M+

Segment 3: 78th Place to Hayden Road



Alternative 3.A – Single left turn lane at Hayden



Alternative 3.B – Additional left turn capacity at Hayden

Segment Three Issues

<u>Alternative</u>	Impacts Path Width	Proximity to Nearest <u>Home</u>	Intersection Congestion	Roadway <u>Noise</u>	<u>Cost</u>
3.A	No	approx. 30'	Limited benefit	Rubberized asphalt	\$0.89M
3.B	Yes	approx. 25'	Improves	Rubberized asphalt	\$0.91 M

Proposed Next Steps

- Present Recommended Alternative to Transportation Commission
 - July/August 2005
- Final Design Contract to City Council
 - September/October 2005